

**WHAT IS CLAIMED IS:**

1. A multilayer ultrathin film which comprises layers of a polymer and layers of lamina particles alternately assembled, said lamina particles are obtained by exfoliating microcrystals of a layered titanium oxide.
  2. The ultrathin film according to Claim 1, wherein the lamina particles are titania nanosheets having a compositional formula of  $Ti_{1-\delta}O_2$  ( $0 \leq \delta \leq 0.5$ ).
  3. The ultrathin film according to Claim 1, of which the film thickness can be controlled within a range of from sub-nm to nm.
  4. The ultrathin film according to Claim 1, which absorbs ultraviolet light having a wavelength of at most 300 nm with a high efficiency.
  5. A method for producing the titania ultrathin film as defined in Claim 1, which comprises repeatedly soaking a substrate alternately in a sol having titania nanosheets suspended and in a cationic polymer solution so that the nanosheets and the polymer are adsorbed on the substrate each in a thickness of from sub-nm to nm level to form a multilayer having said components alternately accumulated.

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